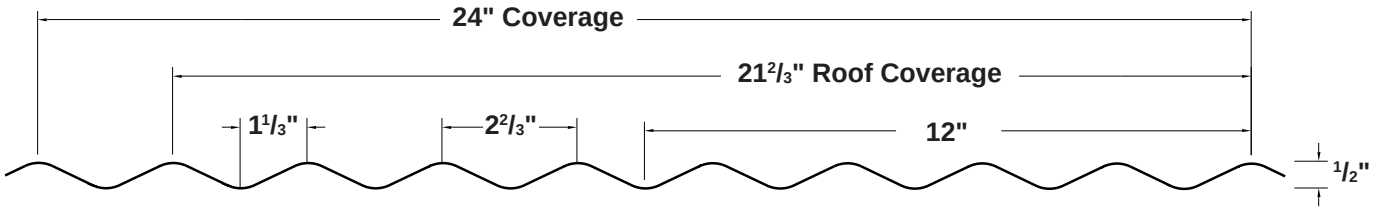
2.5" CORRUGATED



COMMERCIAL RESIDENTIAL PANEL

DIRECT FASTEN

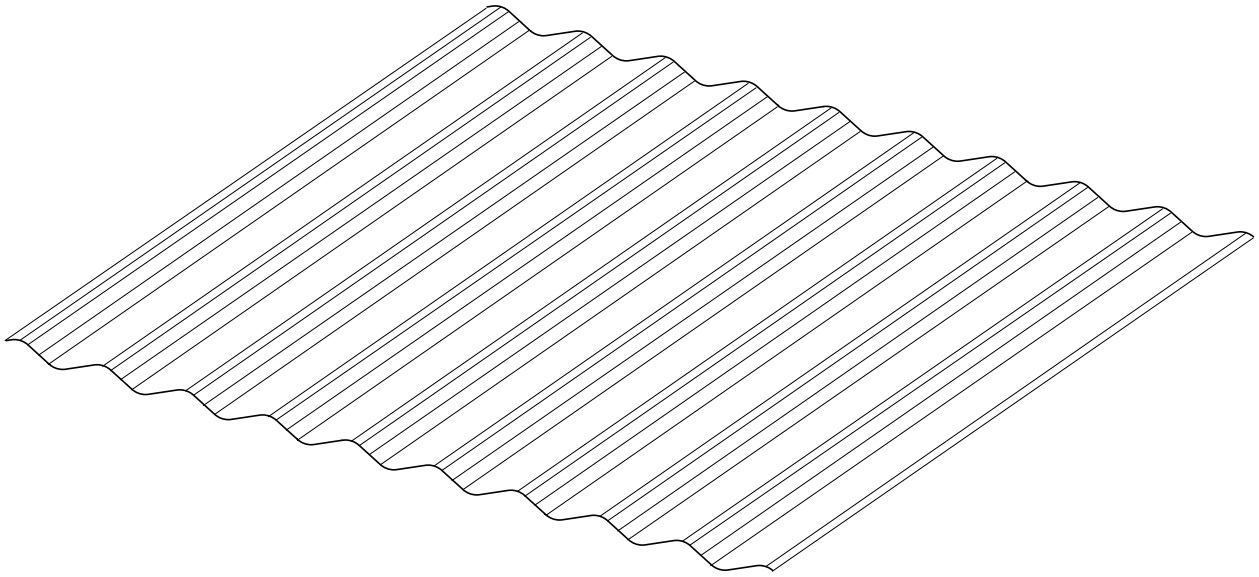
24" WALL COVERAGE

MINIMUM 3:12 SLOPE

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: Bare Galvanized, MS Colorfast45®, and Acrylic Coated Galvalume®
- Gauges: 26ga, 24ga, 18ga
- 24" wall panel coverage, 1/2" rib height
- 21 2/3" roof panel coverage, 1/2" rib height
- Applies over open framing or solid substrate
- 3:12 slope minimum



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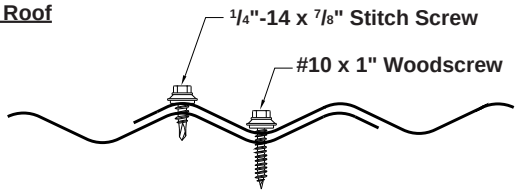
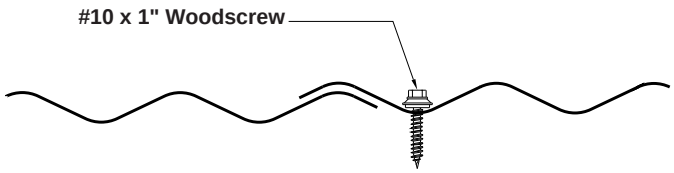
2.5" CORRUGATED

ATTACHMENT DETAILS

For Roof

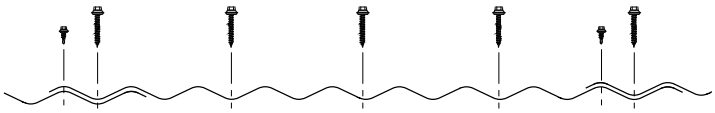


For Wall

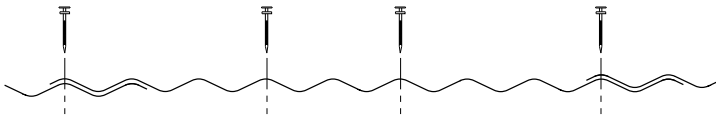


FASTENING PATTERN

Typical Screw Fastening Pattern



Typical Nail Fastening Pattern



GENERAL INFORMATION

▶ Slope

The minimum recommended slope for corrugated roofing panel is 3:12.

▶ Substructure

2.5" Corrugated panel is designed to be utilized over open structural framing but can easily be used with a solid substrate. To avoid panel distortion use a properly aligned and uniform substructure.

▶ Coverage

2.5" Corrugated panels are available in a 1/2" rib height with a coverage width of 24".

▶ Length

Minimum factory cut length is 3'-0". Maximum recommended panel length is 30'-0". Longer panels require additional consideration in packaging, shipping, and erection. Please consult Metal Sales for recommendations.

▶ Fasteners

The fastener selection guide should be consulted for choosing the proper fastener for specific applications. Quantity and type of fastener must meet necessary loading and code requirements (for applications involving the use of nails instead of screws, Metal Sales recommends nailing through the high part of the corrugation).
NOTE: All panels are subject to surface distortion due to improperly applied fasteners. Overdriven fasteners will cause stress and induce oil canning across the face of the panel at or near the point of attachment.

▶ Availability

Finishes: MS Colorfast45®, Acrylic Coated Galvalume®, and Bare Galvanized
Gauge: 26ga standard

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS PSF (3 or More Equal Spans)

Ga.	Width (in.)	Yield KSI	Weight PSF	Top in Compression		Bottom in Compression		Inward (Gravity / Deflection) Load						Outward Uplift (Stress) Load					
				Ixx In^4/ft	Sxx In^3/ft	Ixx In^4/ft	Sxx In^3/ft	2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'
26	24"	60	0.78	0.0060	0.0237	0.0060	0.0237	124	63	37	23	15	8	124	63	37	23	15	8
24	24"	50	1.03	0.0080	0.0308	0.0080	0.0308	165	84	49	31	21	11	165	84	49	31	21	11
18	24"	33	2.12	0.0165	0.0605	0.0165	0.0605	215	142	100	63	43	22	215	142	100	63	43	22

1. Theoretical section properties have been calculated per AISI 2001 "Specification for the Design of Cold-formed Steel Structural Members." Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2001 specifications considering bending, shear, combined bending and shear, deflection, and applicable testing when available. Allowable load considers the worst case of 3 and 4 equal span conditions. Allowable load does not address web crippling or fasteners/support connection and panel weight is not considered.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase in uplift.

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